

**JUKI®**

*Bottom-feed, Overlock / Safety Stitch Machine  
for Extra Heavy-weight Materials*

## *MO-6900G Series*

*Variable Top-feed, Overlock / Safety Stitch Machine  
for Extra Heavy-weight Materials*

## *MO-6900J Series*



*MO-6916J*

# MO-6900G, MO-6900J Series

**An advanced full-featured machine that is ideally suited to the sewing of extra heavy-weight materials.**

The machine incorporates a mechanism and parts that are optimum for the sewing of extra heavy-weight materials, such as an extra high-lift type upper looper, tractor foot and coarse type feed dog.

It demonstrates an excellent performance ability in the sewing of various kinds of heavy-weight materials such as jeans, raised fabric materials, mats and carpets.



**MO-6916G**

- The machine securely clamps the material at the beginning of sewing as well as smoothly sewing multi-layered parts of the material to facilitate the sewing of extra heavy-weight materials.



**MO-6916G-FH6-700**

- The MO-6900J Series comes with a newly-developed feed mechanism that moves the top and bottom feeds separately. With its improved feeding capacity and stronger cloth-biting force, the feed mechanism prevents uneven material feed when sewing extra heavy-weight materials.



**MO-6916J-FH6-700**

- The machine incorporates mechanisms that are both durable and reliable, such as the needle bar mechanism, utilizing the upper and lower bushings, a cartridge type oil filter and cooling fan.
- The machine is equipped as standard with a micro-lifter that helps reduce operator fatigue. The micro-lifter is designed to achieve optimum balance, not only reducing noise and vibration but also ensuring comfortable operation.
- Needle thread heat remover and needle cooler prevent stitching troubles during times of high-speed sewing, thereby contributing to upgraded seam quality.
- The machine comes standard with various adjusting mechanisms, such as a micro-adjusting mechanism, all of which can be easily adjusted to enable the machine to perform sewing under the best-suited conditions for any kind of material.

## SUBCLASS MACHINE LIST

Model No.	Materials	Number of needles	Number of threads	Needle gauge (mm)	Overedging width (mm)	Number of feed dog rows	Stitch length (mm)	Bottom differential-feed ratio	Longitudinal stroke of top-feed dog (mm)	Presser lifting amount (mm)	Needle system	Max. sewing speed (rpm)	Remarks
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### MO-6900G Series

MO-6903G-0N6-3D1	L ~ M	1	2	-	18.0	3	7	-	-	5	DO x 5 #16	5,500	For splicing fabrics
MO-6904G-0F6-700	EH	1	3	-	4.8	3	5	1:0.7 ~ 1:1.75	-	8	DO x 5 #21	6,000	For runstitching extra heavy-weight materials such as denim
MO-6905G-0M6-700		1	3	-	10.0	3	7	-	-	7	DC x 1 #24	4,000	For overedging carpets, mats for entrance halls, etc.
MO-6905G-0M6-7E0		1	3	-	10.0	3	7	-	-	7	DC x 1 #24	4,000	For overedging car mats
MO-6914G-CH6-700		2	4	2.6	6.4	3	4	1:0.8 ~ 1:2	-	8	DO x 5 #18	6,000	For overedging jersey, etc.
MO-6916G-FF6-700		2	5	4.8	4.8	3	5	1:0.7 ~ 1:1.75	-	8	DO x 5 #21	6,000	For safety stitching extra heavy-weight materials such as denim
MO-6916G-FH6-700		2	5	4.8	6.4	3	5	1:0.7 ~ 1:1.75	-	8	DO x 5 #21	6,000	

### MO-6900J Series

MO-6904J-0F6-700	EH	1	3	-	4.8	3	5	1:0.7 ~ 1:1.75	2.7 ~ 7	8	DO x 5 #21	6,000	For runstitching extra heavy-weight materials such as denim
MO-6914J-CH6-700		2	4	2.6	6.4	3	4	1:0.8 ~ 1:2	2.7 ~ 7	8	DO x 5 #18	6,000	For overedging jersey, etc.
MO-6916J-FF6-700		2	5	4.8	4.8	3	5	1:0.7 ~ 1:1.75	2.7 ~ 7	8	DO x 5 #21	6,000	For safety stitching extra heavy-weight materials such as denim
MO-6916J-FH6-700		2	5	4.8	6.4	3	5	1:0.7 ~ 1:1.75	2.7 ~ 7	8	DO x 5 #21	6,000	
MO-6916J-FF6-70Q		2	5	4.8	4.8	3	5	1:0.7 ~ 1:1.75	2.7 ~ 7	8	DC x 27 #16	6,000	For safety stitching bathrobe, etc.



# DEVICES AND ATTACHMENTS

Model	Part No.	Description	MO-6900G	MO-6900J
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## ● Chain-off thread trimming device

T039	MAT-039001A0	One-touch type tape cutter and chain-off thread trimming device (electromagnetic type)	For 110, 115, 220, 240V	○	-	
	MAT-039002A0		For 220, 380, 415, 440V			
	MAT-039003A0		For 110, 115, 220, 240V	-	○	
	MAT-039004A0		For 220, 380, 415, 440V			
T040	MAT-040001A0	Automatic tape cutter + chain-off thread trimming device (number-off-stitch control and electromagnetic type)	For semi-sunken type	For 110, 115, 220, 240V	○	-
	MAT-040002A0		For 220, 380, 415, 440V			
	MAT-040001AA		For fully-sunken type	For 110, 115, 220, 240V	-	○
	MAT-040002AA		For 220, 380, 415, 440V			
	MAT-040005A0		For semi-sunken type	For 110, 115, 220, 240V		
	MAT-040006A0		For fully-sunken type	For 220, 380, 415, 440V		
	MAT-040005AA		For semi-sunken type	For 110, 115, 220, 240V		
MAT-040006AA	For fully-sunken type	For 220, 380, 415, 440V				
T048	MAT-048010A0	Pneumatic flat cutter (for overlock stitch machine)		○	-	
	MAT-048010B0			-	○	
T050	MAT-050010A0	Pneumatic flat cutter (for safety stitch machine)		○	-	
	MAT-050010B0			-	○	

## ● Pneumatic chain-off thread suction device

MC-4	-	Specific to chain-off thread, pedal-operated	○	○
MC-5	-	Specific to chain-off thread	○	○
MC-8	-	Pneumatic chain-off thread + cloth chips	○	○
MC-9	-	Function of MC-8 + auto-lifter	○	○
MC-24	-	Pneumatic chain-off thread + cloth chips	○	○

\* The aforementioned devices are not equipped with air regulator. Please purchase the following components when you need to regulate air pressure.

-	PF-0552010-B0	Air regulator (F.R. unit asm.)	○	○
-	GMD-01080000 × 2	Fixing screw for F.R. unit asm.	○	○
-	F1021-003-000	Tube connector (male)	○	○
-	GAS-12063000*	One-touch connector * Selection parts instead of the tube connector	○	○

## ● Auto-lifter

AK32	GAK-320000A0	Pneumatic type (knee-operated)	○	○
AK49	GAK-490000A0	Pneumatic type (pedal-operated)	○	○
AK52	GAK-520000A0	Pneumatic type (with chain-off thread suction device)	○	○
AK101	GAK-A01000A0	Pneumatic type (for servomotor)	○	○

## [Reference]

Combination table of "chain-off thread suction device" and "auto-lifter" which correspond to "chain-off thread trimming device".

Chain-off thread trimming device	Chain-off thread suction device	Auto-lifter
T039	+	MC-8 AK101 (JUKI servomotor)
		MC-9 - (MC-9 is equipped with auto-lifter.)
T040	+	MC-5 AK32 (any motor will do)
		MC-24 AK32 (any motor will do)
T041S or T042S	+	MC-4 -
		MC-8 AK101 (JUKI servomotor)
		MC-9 - (MC-9 is equipped with auto-lifter.)

## WHEN YOU PLACE ORDERS

Please note when placing orders, that the model name should be written as follows:

MO69   G

Stitch type	U.S.A	Code
For splicing fabrics	503	03
1-needle overlock	504	04
For overedging carpets	505	05
2-needle overlock	514	14
2-needle safety stitch	516	16

Type	Code
Extra heavy-weight materials	G

Needle gauge (mm)	Overedging width (mm)	Feed dog	Code
-	18.0	3-row	0N6
-	4.8	3-row	0F6
-	10.0	3-row	0M6
2.6	6.4	3-row	CH6
4.8	4.8	3-row	FF6
4.8	6.4	3-row	FH6

Remarks	Code
For splicing fabrics	3D1
For extra heavy-weight materials (jeans, car mats etc.)	700
For car mats	7E0

MO69   J

Stitch type	U.S.A	Code
1-needle overlock	504	04
2-needle overlock	514	14
2-needle safety stitch	516	16

Type	Code
Variable top-feed for extra heavy-weight materials	J

Needle gauge (mm)	Overedging width (mm)	Feed dog	Code
-	4.8	3-row	0F6
2.6	6.4	3-row	CH6
4.8	4.8	3-row	FF6
4.8	6.4	3-row	FH6

Remarks	Code
For extra heavy-weight materials (jeans, car mats etc.)	700
For extra heavy-weight materials (bathrobe etc.)	70Q

● To order, please contact your nearest JUKI distributor.

# SPECIFICATIONS

## MO-6900G Series

Model name	MO-6904G	MO-6914G	MO-6916G
Stitch type	1-needle overlock	2-needle overlock	Safety stitching
Stitch style in the U.S.A.	504	514	516
Max. sewing speed	6,000rpm		
Stitch length	2.5 ~ 5mm	2.5 ~ 4mm	2.5 ~ 5mm
Needle gauge (mm)	-	2.6	4.8
Overedging width (mm)	4.8, 10.0, 18.0	6.4	4.8, 6.4
Differential feed ratio	For gathering 1:1.75 (max. 1:3.8) For stretching 1:0.7 (max. 1:0.6)	For gathering 1:2 (max. 1:3.8) For stretching 1:0.8 (max. 1:0.6)	For gathering 1:1.75 (max. 1:3.8) For stretching 1:0.7 (max. 1:0.6)
Needle bar stroke	28.8mm		
Inclination angle of the needle	20°		
Needle bar bushing	Upper/lower bushing method		
Needle	DO × 5 (excluding some subclass model)		
Max. lift of the presser foot	8mm (excluding some subclass model)		
Max. presser foot pressure	63.7N (6.5kg)		
Stitch adjusting method	By push-button		
Differential-feed adjusting method	By lever (with micro-adjustment)		
Weight of the machine head	28kg		
Lubrication	Automatic		
Lubricating oil	JUKI Machine Oil 18 (equivalent to ISO VG18)		
Needle cooler	Provided as standard (excluding some subclass model)		
Needle thread heat remover	Provided as standard		
Micro-lifter	Provided as standard		

## MO-6900J Series

Model name	MO-6904J	MO-6914J	MO-6916J
Stitch type	1-needle overlock	2-needle overlock	Safety stitching
Stitch style in the U.S.A.	504	514	516
Max. sewing speed	6,000rpm		
Stitch length	2.5 ~ 5mm	2.5 ~ 4mm	2.5 ~ 5mm
Needle gauge (mm)	-	2.6	4.8
Overedging width (mm)	4.8	6.4	4.8, 6.4
Bottom differential feed ratio	For gathering 1:1.75 (max. 1:3.8) For stretching 1:0.7 (max. 1:0.6)	For gathering 1:2 (max. 1:3.8) For stretching 1:0.8 (max. 1:0.6)	For gathering 1:1.75 (max. 1:3.8) For stretching 1:0.7 (max. 1:0.6)
Needle bar stroke	28.8mm		
Inclination angle of the needle	20°		
Needle bar bushing	Upper/lower bushing method		
Needle	DO × 5 (excluding some subclass model)		
Vertical stroke of top feed dog	8.5mm		
Longitudinal stroke of top feed dog	2.7 ~ 7mm (it differs with the machine's specifications.)		
Max. lift of the presser foot	8mm (excluding some subclass model)		
Max. presser foot pressure	63.7N (6.5kg)		
Stitch adjusting method	By push-button		
Bottom differential feed adjusting method	By lever (with micro-adjustment)		
Top differential feed adjusting method	By lever (with micro-adjustment)		
Weight of the machine head	29kg		
Lubrication	Automatic		
Lubricating oil	JUKI Machine Oil 18 (equivalent to ISO VG18)		
Needle cooler	Provided as standard		
Needle thread heat remover	Provided as standard		
Micro-lifter	Provided as standard		



### JUKI CORPORATION HEAD OFFICE

The environmental management system to promote and conduct  
 (1) the technological and technical research, the development and design of the products in which the environmental impact is considered,  
 (2) the conservation of the energy and resources, and the recycling in the research, development, design, distribution, sale and maintenance service of the industrial sewing machines, household sewing machines and industrial-use robots, etc. and in the sale and maintenance service of the data entry system and in the purchase, distribution and sale of the household commodities including the healthcare products.

**JUKI**<sup>®</sup>  
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- \* Specifications and appearance are subject to change without prior notice for improvement.
- \* Read the instruction manual before putting the machine into service to ensure safety.
- \* This catalog is printed on recycle paper.